

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 6,919,880 B2
APPLICATION NO. : 09/870698
DATED : July 19, 2005
INVENTOR(S) : Gerald Morrison and David Holmgren

Page 1 of 4

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

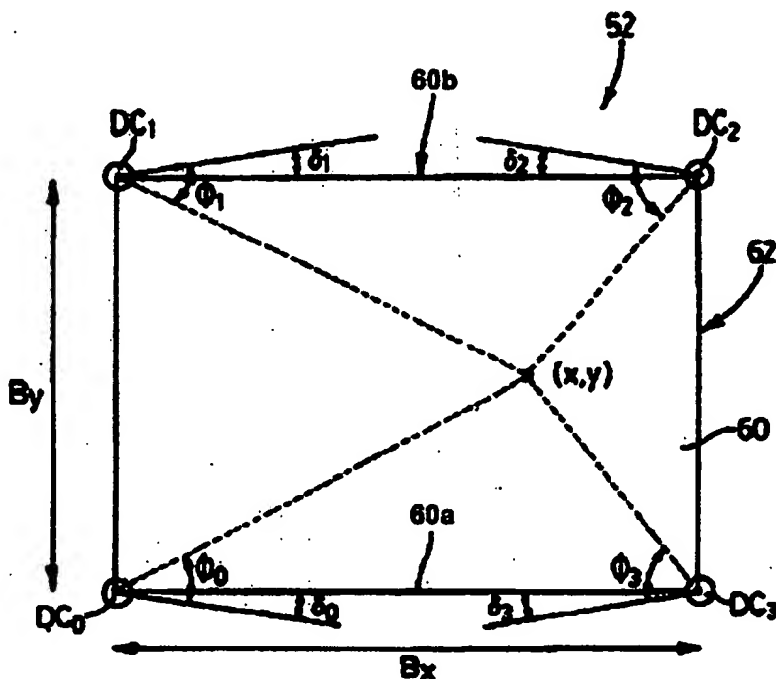
On the Cover Page, in the Title, “ (54) CALIBRATING CAMERA OFFSETS TO FACILITATE OBJECT POSITION DETERMINATION USING TRIANGULATION” should read -- (54) CALCULATING CAMERA OFFSETS TO FACILITATE OBJECT POSITION DETERMINATION USING TRIANGULATION--.

On the Cover Page, “(73) Assignee: Smart Technologies Inc. (CA)” should read --SMART Technologies Inc (CA).--.

On the Cover Page, in the abstract, line 9, “at least two cameras at least one location” should read --at least two cameras at at least one location--.

On the Cover Page, in the Representative Drawing, “62 a” should read --60a--.

On the Cover Page, in the Representative Drawing, “62 b” should read --60b--.



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In the Drawings, Figure 2, "62a" should read --60a--.
In the Drawings, Figure 2, "62b" should read --60b--.

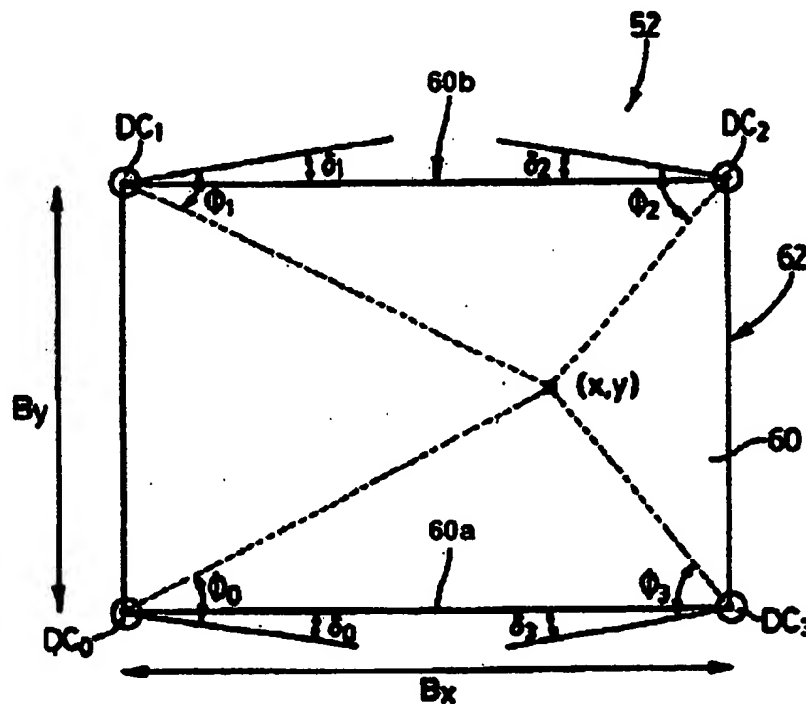


FIG. 2

Column 4, line 12, "determine the position of the object" should read --determining the position of the object--.

Column 5, line 24, "the touch is system" should read --the touch system--.

Column 5, line 52, "based on CMOS digital care" should read --based on CMOS digital camera--.

Column 6, line 22, Equation (0.1), " $2(x/a)\tan$ " portion of equation needs to be part of the numerator.

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Column 6, Line 58, "edge of the touch surface" should read --edges of the touch surface--.

Column 8, Line 5, Equation (0.16), " x_{cam} " portion of equation needs to be part of the numerator.

Column 8, line 5, Equation (0.16) – " x_{cam} " portion of equation needs to be part of the numerator.

Column 8, line 65, " $A\bar{x} = \bar{b}$ " should read -- $A\bar{x} = \bar{b}$ --.

Column 9, line 2, " $\bar{x} = A^{-1}\bar{b}$ " should read -- $\bar{x} = A^{-1}\bar{b}$ --.

Column 9, line 20, Equation (0.20), " $A^T A\bar{x} = A^T \bar{b}$ " should read -- $A^T A\bar{x} = A^T \bar{b}$ --.

Column 9, line 22, Equation (0.20), " $\bar{x} = (A^T A)^{-1} A^T \bar{b}$ " should read

-- $\bar{x} = (A^T A)^{-1} A^T \bar{b}$ --.

Column 9, line 26, Equation (0.21), " $\bar{x} = A^T (AA^T)^{-1} \bar{b}$ " should read

-- $\bar{x} = A^T (AA^T)^{-1} \bar{b}$ --.

Column 9, line 37, "when translation" should read --when triangulation--.

Column 10, line 52, "correction vector \bar{x} " should read --correction vector \bar{x} --.

Column 10, line 54, Equation (1.5), " $\bar{x} = A^T (AA^T + I/V)^{-1} \bar{b}$ " should read

-- $\bar{x} = A^T (AA^T + I/V)^{-1} \bar{b}$ --.

Column 11, line 20, Equation (2.0), numerator " $y_i - y_c^{11}$ " should read -- $y_i - y_c^i$ --.

Column 14, line 62, "multiple triangular" should read --multiple triangulation--.

Column 14, lines 64-65, "device to determine offset angles of said imaging devices prior to" should read --device to determine offset angles of said imaging device prior to--.

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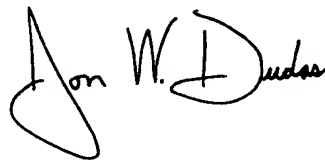
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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 15, lines 25-26, "by determining offset angles of said imaging devices to compensate for fields of view of said imaging devices" should read --by determining offset angles of said imaging devices to compensate for fields of view of imaging devices--.

Signed and Sealed this

Seventeenth Day of October, 2006

A handwritten signature in black ink, appearing to read "Jon W. Dudas". The signature is stylized with a large, looping initial "J" and a distinct "D" at the end.

JON W. DUDAS
Director of the United States Patent and Trademark Office